Via Express Mail No.: EV583 462568 US Date of Deposit: January 14, 2005

PTC-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	RANSMITTAL LETTER TO	ATTORNEY'S DOCKET NUMBER 601-1-134PCTUS								
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371			U.S. APPOCATION No. (Increwing eg 37 FFR 1.5) Unassigned							
	ATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED							
	PCT/US03/021954 16 JULY 2003 16 JULY 2002  TITLE OF INVENTION									
ALPHA 5 BETA 1 AND ITS ABILITY TO REGULATE THE CELL SURVIVAL PATHWAY  APPLICANT(S) FOR DO/EO/US										
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY										
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:										
1.	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.									
2. 🔲	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.									
3.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
4.	The US has been elected (Article 31).									
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))									
	a. is attached hereto (required only if not communicated by the International Bureau).									
	b. has been communicated by the International Bureau.									
	c. is not required, as the application was filed in the United States Receiving Office (RO/US).									
6.	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).									
	a. is attached hereto.									
., 	b. has been previously submitted under 35 U.S.C. 154(d)(4).									
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))									
	a. are attached hereto (required only if not communicated by the International Bureau).									
	b. have been communicated by the International Bureau.									
	c. have not been made; however, the time limit for making such amendments has NOT expired.									
	d. have not been made and will not be made.									
8.	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9.	An oath or declaration of the inventor(s)-(35-0:S.C. 371(c)(4)). Unexecuted									
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E.	xamination Report under PCT							
Items 11 to 20 below concern document(s) or information included:										
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.								
12.	An assignment document for recording	ng. A separate cover sheet in compliance wit	th 37 CFR 3.28 and 3.31 is included.							
13. 🔽	A preliminary amendment.									
14.	An Application Data Sheet under 37 (	CFR 1.76.								
15.	A substitute specification.									
16.	A power of attorney and/or change of	f address letter.								
17.	A computer-readable form of the seq	juence listing in accordance with PCT Rule 1	3ter.2 and 37 CFR 1.821- 1.825.							
18.	A second copy of the published Interest	national Application under 35 U.S.C. 154(d)(	(4).							
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).									
20. 🔽	Other items or information: Drawin	ngs, International Search Report								

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## DT12 Rec'd PCT/PTO 1 4 JAN 2005

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21. The following fees are submitted:	U.S. APPLICAT	Unassigned 0 5 2 1 8 4 1 INTERNATIONAL APPLICATION NO. PCT/US03/21954		ATTORNEY'S DOCKET NUMBER						
② a) Besic national fee			7♣	1 C1/0303/21934		601-1-134PCTU				
Description   Section		•					Office use only			
TOTAL OF ABOVE CALCULATIONS \$100.00    Additional fee for specification and drawings filled in paper over 100 sheets (excluding seephence additional 50 sheets of paper or fraction thereof.    Total Sheets   Extra sheets   Number of each additional 50 or fraction thereof (round up to a whole number)   RATE    -100			300.00							
TOTAL OF ABOVE CALCULATIONS = \$1000.00 \$1,000.										
Additional fee for specifications and drawings filed in paper over 100 sheets (excluding sequence listing or computer program fileing field in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets	c) Search f	ee		<del> </del>						
Listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 or fraction thereoff reach additional 50 or fraction from the control of the c		TOTAL OF ABOVE CAL	LCULATIONS	S =		\$ 1,000.00				
thereof (round up to a whole number)  -100 =	listing or co	mputer program listing file								
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE \$  Total claims 24 - 20 = 4	Total Sheets	Extra sheets			RATE					
claimed priority date (37 CFR 1.492(e)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  \$  Total claims  24 - 20 = 4	- 100 =	/50 =			× \$250.00	\$				
Total claims  24 - 20 = 4			ath or declara	tion later than 30 months from	the earliest	\$				
Independent claims 3 -3 = 0	CLAIMS	NUMBER FIL	.ED	NUMBER EXTRA	RATE	\$				
MULTIPLE DEPENDENT CLAIM(S) (if applicable)  TOTAL OF ABOVE CALCULATIONS = \$ 1,200.00  Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by %.  SUBTOTAL = \$  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  TOTAL NATIONAL FEE = \$  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property    TOTAL FEES ENCLOSED = \$ 1.200.00  Amount to be refunded:  Amount to be charged  A check in the amount of \$ 1.200.00  Total fees seed the above fees is enclosed.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 11-1153	Total claims	24	- 20 =	4	x \$50.00	\$ 200.00				
TOTAL OF ABOVE CALCULATIONS = \$ 1,200.00  Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Independent clai	ms 3	- 3 =	0	× \$200.00	\$ 0				
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by 1/2.  SUBTOTAL = \$  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  TOTAL NATIONAL FEE = \$  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property						\$ 1,200.00				
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  TOTAL FEES ENCLOSED = \$ 1.200.00  Amount to be refunded: Amount to be charged \$ \$  a. A check in the amount of \$ 1.2(10).00 to cover the above fees is enclosed. b. Please charge my Deposit Account No. 11-1153 in the amount of \$ to cover the above fees. Adupticate copy of this sheet is enclosed. c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 11-1153 A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.  SEND ALL CORRESPONDENCE TO: KLAUBER & JACKSON 411 HACKENSACK AVENUE 4TH FLOOR HACKENSACK, NJ 07601  FEESTALL (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to PTO-2038.  NAME 52,491		_	\$							
TOTAL FEES ENCLOSED = \$ 1.200.00  Amount to be refunded: Amount to be charged \$  a. A check in the amount of \$ 1.2(N).(N) to cover the above fees is enclosed. b. Please charge my Deposit Account No. 11-1153 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 11-1153. A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.  SEND ALL CORRESPONDENCE TO: KLAUBER & JACKSON 411 HACKENSACK AVENUE  VERONICA MALLON, Ph.D. NAME  VERONICA MALLON, Ph.D. NAME  52,491			\$							
Amount to be refunded:  Amount to be charged  Amount to be charged  \$  a. A check in the amount of \$ 1.2(0).00										
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b. Please charge my Deposit Account No. 11-1153 in the amount of \$	a. A chec	k in the amount of \$ 1.2	200.00	to cover the above t	ees is enclosed.		1			
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